



PTO/SB/21 (03-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Application Number 10/634,220

Filing Date August 5, 2003

First Named Inventor Kryliouk et al.

Art Unit

Examiner Name

Attorney Docket Number 5853-413

Total Number of Pages in This Submission

**ENCLOSURES (Check all that apply)**

- |                                                                              |                                                                           |                                                                                         |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <input type="checkbox"/> Fee Transmittal Form                                | <input type="checkbox"/> Drawing(s)                                       | <input type="checkbox"/> After Allowance Communication to a Technology Center (TC)      |
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| <input type="checkbox"/> After Final                                         | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information                                        |
| <input type="checkbox"/> Affidavits/declaration(s)                           | <input type="checkbox"/> Power of Attorney, Revocation                    | <input type="checkbox"/> Status Letter                                                  |
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| <input type="checkbox"/> Express Abandonment Request                         | <input type="checkbox"/> Terminal Disclaimer                              | PTO/SB/08B; 3 References; and 1 Postcard                                                |
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| <input type="checkbox"/> Certified Copy of Priority Document(s)              | <input type="checkbox"/> CD, Number of CD(s) _____                        |                                                                                         |
| <input type="checkbox"/> Response to Missing Parts/Incomplete Application    |                                                                           |                                                                                         |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 |                                                                           |                                                                                         |

**Remarks**

No fee is believed due. However, if any fee is due, the Commissioner is authorized to charge any such fee and any additional fees due or credit any overpayment to Deposit Account No. 50-0951.

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual	AKERMAN SENTERFITT
Signature	Neil R. Jetter
Date	March 30, 2004

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: March 30, 2004

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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of: KRYLIOUK et al.**

**Application No.:** 10/634,220

**Examiner:**

**Filed:** August 5, 2003

**Group Art Unit:**

**For:** GROUP III-NITRIDE GROWTH ON Si SUBSTRATE USING  
OXYNITRIDE INTERLAYER

CERTIFICATE UNDER 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on March 30, 2004.

Neil R. Jetter

Commissioner for Patents  
Post Office Box 1450  
Alexandria, VA 22313-1450

Date: March 30, 2004

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

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Sir:

Pursuant to the Duty to Disclose under 37 C.F.R. § 1.56, Applicants hereby disclose information that may be relevant to the Examiner's consideration of the above-identified application and the patentability of its claims.

In accordance with Rules 56, 97, and 98 of the Rules of Practice in Patent Cases (37 C.F.R. §§ 1.56, 1.97, and 1.98), Form PTO/SB/08B and copies of references cited therein are submitted for consideration by the Examiner. While the references provided in this Supplemental Information Disclosure Statement may be material to patentability pursuant to 37 C.F.R. § 1.56, it is not intended to constitute an admission that any reference referred to herein is prior art for this invention unless specially designated as such. Also, in accordance with 37 C.F.R. § 1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be

{WP174288;1}

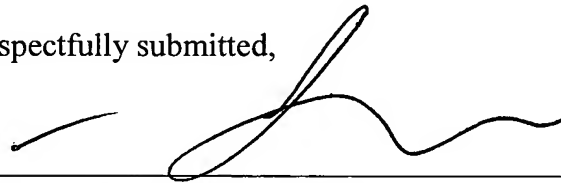
In re Application of: KRYLIOUK et al.  
Application No.: 10/634,220  
Filed: August 5, 2003  
Group Art Unit:  
For: GROUP III-NITRIDE GROWTH ON Si SUBSTRATE USING  
OXYNITRIDE INTERLAYER

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construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. § 1.56(a) exists.

This Supplemental Information Disclosure Statement is being filed before the issuance of a first office action on the merits of the application (37 C.F.R. 1.97(b)(3)); therefore, no fee is believed to be due. However, if any fee is due, the Commissioner is authorized to charge any such fee and any additional fees due or credit any overpayment to Deposit Account No. 50-0951.

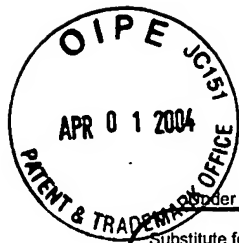
Respectfully submitted,



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Docket No. 5853-413



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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/634,220
Filing Date	August 5, 2003
First Named Inventor	Kryliouk et al.
Art Unit	
Examiner Name	
Attorney Docket Number	5853-413

Sheet	1	of	1
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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		KRYLIOUK et al., "SINGLE CRYSTAL GaN SUBSTRATE GROWN by HYDRIDE-METAL ORGANIC VAPOR PHASE EPITAXY (H-MOVPE)," Electromechanical Society Proceedings, 98-18:99-107, 1998.	
		LUKAS et al., "OPTIMIZATION OF PHASE DIAGRAMS BY A LEAST SQUARES METHOD USING SIMULTANEOUSLY DIFFERENT TYPES OF DATA," CALPHAD, 1:225-236, 1977.	
		SUNDMAN et al., "THE THERMO-CALC DATABANK SYSTEM," CALPHAD, 9:153-190, 1985.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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